

Applications 6

Name: _____

CSP also sells ladder bridges mad from 1-foot steel rods arranged to form a row of squares. *Refer to the diagram on pg.15. Below is a representation of the pattern.



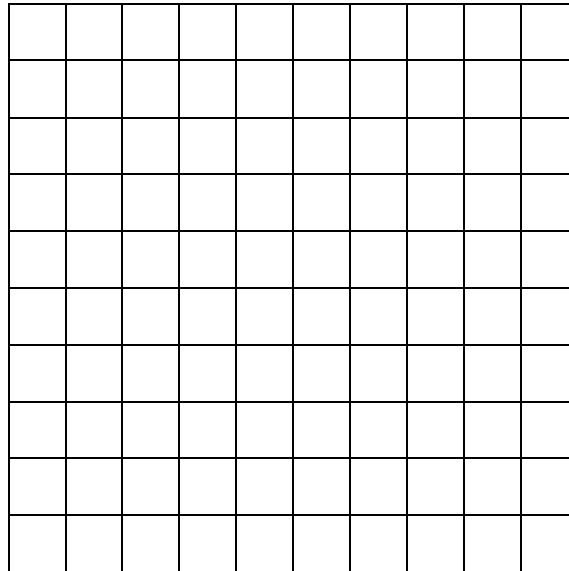
6-foot ladder bridge made from 19 rods

- a. Complete the table showing how the number of rods in a ladder bridge is related to the length of the bridge.

CSP Ladder Bridges

| | | | | | | |
|---------------------------|---|---|---|---|---|----|
| Bridge Length (ft) | 1 | 2 | 3 | 4 | 5 | 6 |
| Number of Rods | 4 | | | | | 19 |

Complete the graph showing how the number of rods in a ladder bridge is related to the length of the bridge.



- b. Compare the pattern of change for the ladder bridges with those for the Beams and Staircase Frames in Problem 1.3.